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and  
Diablo Valley College  
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## “Microbiology Boot Camp!”

A one-day introduction to microbiological techniques for high school biology students.

**Objective:** Provide students with the practical microbiological skills in order to facilitate their respective science fair projects. Gain an appreciation for microbiology (molecular aspects, identification, etc.).

### **Instructors:**

Maurice Pitesky (M.S.)

Researcher, Lawrence Livermore National Lab (BioSecurity and NanoSciences Lab)  
Adjunct Professor of Microbiology, Diablo Valley College

David Fergenson (PhD)

Researcher, Lawrence Livermore National Lab (BioSecurity and NanoSciences Lab)

Jackie Chimni

Pre-nursing student, Diablo Valley College

**Costs:** Free! All materials purchased by Lawrence Livermore National Laboratory

**Date/Time:** January 10<sup>th</sup> 2004, 9:00 AM to approximately 4:30 PM

**Where:** Diablo Valley College  
LS Building Room 204

### **Directions to DVC:**

#### 680 Northbound:

Exit Concord-Burnett Ave.  
left on Diamond Blvd.  
left on Concord Ave.  
left on Contra Costa Blvd.  
right on Golf Club Road  
DVC is on the left

#### 680 Southbound:

Exit Concord Ave.  
Left at light, south on  
Contra Costa Blvd.  
turn right on Golf Club Road  
DVC is on the left

### **For direction on how to get to LS 204:**

View DVC campus map at <http://www.dvc.edu/aboutdvc/campusmap.htm>

Parking lot 5 is where students should be dropped off and picked up.

## **Syllabus:**

9AM-10AM - **Introduction to Microbiology**

10AM -11:45 AM - **Lab #1:** Sterile Technique, Inoculations, and Introduction to Quantitative Microbiology

11:45 AM – 1:00 PM: **Lunch** (pizza)/**Lab#1.5** Groups will be rotated out to take interim optical density measurements on cultures inoculated during **Lab#1**

1:00 PM – 2:00 PM - **Microbial Anatomy and Introduction to Study of Microorganisms**

2:00 PM –3:00 PM - **Staining Techniques -Gram staining.**

3:00 PM – 3:30 PM - **Lab#2:** Complete Quantitative Micro-Experiments and perform stains on cultures

3:30 - 4:30PM **Break out sessions** (Optional) Review specific science fair projects with students and offer suggestions